

AUTHOR INDEX TO VOLUME 28

- Aitken, R. L., Moody, P. W., and
McKinley, P. G.—
Lime requirement of acidic Queensland soils.
I. Relationships between soil properties and
pH buffer capacity 695
II. Comparison of laboratory methods for
predicting lime requirement 703
- Anderson, V. J.—
See Prove, B. G. 577
- Armour, J. D., Ritchie, G. S. P., and
Robson, A. D.—
Extractable zinc in particle size fractions of soils
from Western Australia and Queensland 387
- Armstrong, J. L.—
Runoff and soil loss from bare fallow plots at
Inverell, New South Wales 659
- Aylmore, L. A. G.—
See Singh, R. 227, 717
- Bajwa, M. S.—
See Singh, H. 947
- Baker, T. G.—
See McLaughlin, M. J. 371
- Baldock, J. A., Oades, J. M., Vassallo, A. M., and
Wilson, M. A.—
Solid state CP/MAS ^{13}C NMR analysis of
particle size and density fractions of a soil
incubated with uniformly labelled
 ^{13}C -glucose 193
Solid state CP/MAS ^{13}C NMR analysis of
bacterial and fungal cultures isolated from a
soil incubated with glucose 213
- Banks, L.—
See Manu, V. T. 727
- Barrow, N. J., and Cox, V. C.—
A quick and simple method for determining the
titration curve and estimating the lime
requirement of soil 685
- Beattie, J. A.—
See Chartres, C. J. 539
- Blackwell, J.—
See Jayawardane, N. S. 167
- Bleeker, P., and Sageman, R.—
Surface charge characteristics and clay
mineralogy of some variable charge soils in
Papua New Guinea 901
- Booth, T. H.—
See Turvey, N. D. 813
- Bowden, J. W.—
See Diggle, A. J. 963, 973
- Bowman, G. M.—
See Chartres, C. J. 539
- Brennan, R. F.—
Reaction of zinc with soil affecting its
availability to subterranean clover. II.
Effect of soil properties on the relative
effectiveness of applied zinc 303
- Brennan, R. F., and Gartrell, J. W.—
Reaction of zinc with soil affecting its
availability to subterranean clover. I. The
relationship between critical concentrations of
extractable zinc and properties of
Australian soils responsive to applied
zinc 293
- Bristow, K. L.—
See Gillman, G. P. 39
- Burgess, R. C.—
See McTainsh, G. H. 323
- Bushby, H. V. A.—
See Skjemstad, J. O. 259
- Cameron, K. C., Harrison, D. F., Smith, N. P.,
and McLay, C. D. A.—
A method to prevent edge-flow in undisturbed
soil cores and lysimeters 879
- Carlyle, J. C., Lowther, J. R., Smethurst, P. J.,
and Nambiar, E. K. S.—
Influence of chemical properties on nitrogen
mineralization and nitrification in podzolized
sands. Implications for forest
management 981
- Carter, D. J.—
See Findlater, P. A. 609
- Chartres, C. J.—
See Greene, R. S. B. 755
Kinnell, P. I. A. 779
- Chartres, C. J., Cumming, R. W., Beattie, J. A.,
Bowman, G. M., and Wood, J. T.—
Acidification of soils on a transect from plains
to slopes, south-western New South
Wales 539
- Chater, M.—
See Holford, I. C. R. 919
- Childs, C. W., Palmer, R. W. P., and Ross, C. W.—
Thick iron oxide pans in soils of Taranaki,
New Zealand 245
- Chittleborough, D. J.—
See Tejan-Kella, M. S. 465
- Collis-George, N.—
See Pillai-McGarry, U. P. P. 129, 141
- Compton, B. L.—
See Moody, P. W. 399
- Conacher, A. J.—
See Lobry de Bruyn, L. A. 55

- Contreras, M. C.—
 See Diaz-Barrientos, E. 549
- Conyers, M. K.—
 See Poile, G. J. 559
- Cox, V. C.—
 See Barrow, N. J. 685
- Cregan, P. D.—
 See Helyar, K. R. 523
- Cumming, R. W.—
 See Chartres, C. J. 539
- Dalal, R. C., and Mayer, R. J.—
 Long-term trends in fertility of soils under continuous cultivation and cereal cropping in southern Queensland. VIII. Available nitrogen indices and their relationships to crop yield and N uptake 563
- D'Antuono, M. F.—
 See Diggle, A. J. 963
- Denmead, O. T.—
 An ammonia budget for Australia 887
- Dexter, A. R.—
 See Grant, C. D. 361
- Diaz-Barrientos, E., Madrid, L., Contreras, M. C., and Morillo, E.—
 Simultaneous adsorption of zinc and phosphate on synthetic lepidocrocite 549
- Dickson, T.—
 See Moody, P. W. 399
- Diggle, A. J., and Bowden, J. W.—
 The effect of rate of water addition on the response of wheat roots to added nitrogen in a leaching environment 973
- Diggle, A. J., Bowden, J. W., and D'Antuono, M. F.—
 A comparison of the effects of mineral and organic nitrogen sources on the distribution of wheat roots in a leaching environment 963
- Dowling, A. J.—
 See Webb, A. A. 841
- Dwyer, J. C.—
 See Moody, P. W. 399
- Findlater, P. A., Carter, D. J., and Scott, W. D.—
 A model to predict the effects of prostrate ground cover on wind erosion 609
- Fitzpatrick, R. W.—
 See Tejan-Kella, M. S. 465
- Foley, J. L.—
 See Prove, B. G. 577
- Gartrell, J. W.—
 See Brennan, R. F. 293
- Gerritse, R. G.—
 See Singh, R. 227, 717
- Gilkes, R. J.—
 See Singh, B. 929
- Gillman, G. P., and Bristow, K. L.—
 Effect of surface application of urea, ammonium sulfate and lime on exchangeable cation distribution in an Inceptisol in humid tropical Queensland 39
- Godyn, D. L.—
 See Helyar, K. R. 523
- Grant, C. D., and Dexter, A. R.—
 Air entrapment and differential swelling as factors in the mellowing of moulded soil during rapid wetting 361
- Greene, R. S. B., Chartres, C. J., and Hodgkinson, K. C.—
 The effects of fire on the soil properties in a degraded semi-arid woodland. I. Cryptogam cover and the physical and micromorphological properties 755
- Gregg, P. E. H.—
 See Williams, P. H. 857
- Hansen, R. W.—
 See Skjemstad, J. O. 259
- Harrison, D. F.—
 See Cameron, K. C. 879
- Hedley, M. J.—
 See Williams, P. H. 857
- Helyar, K. R., Cregan, P. D., and Godyn, D. L.—
 Soil acidity in New South Wales—current pH values and estimates of acidification rates 523
- Hick, P. T., and Russell, W. G. R.—
 Some spectral considerations for remote sensing of soil salinity 417
- Hodgen, M. J.—
 See Holt, J. A. 737
- Hodgkinson, K. C.—
 See Greene, R. S. B. 755
- Holford, I. C. R.—
 Effects of 8-year rotations of grain sorghum with lucerne, annual legume, wheat and long fallow on nitrogen and organic carbon in two contrasting soils 277
- Holford, I. C. R., Chater, M., and Mattingly, G. E. G.—
 Effects of decalcification on the phosphate sorption characteristics of eight calcareous soils 919
- Holt, J. A., Hodgen, M. J., and Lamb, D.—
 Soil respiration in the seasonally dry tropics near Townsville, North Queensland 737
- Hopmans, P.—
 See Turner, J. 797
- Hutton, J. T.—
 See Tejan-Kella, M. S. 465

- James, T. R.—
See McLaughlin, M. J. 371
- Jayawardane, N. S., and Blackwell, J.—
Use of the neutron method in assessing the changes in soil strength of undisturbed and ameliorated transitional red-brown earths during soil drying cycles 167
- Jessop, R. S., Roth, G., and Sale, P.—
Effects of increased levels of soil CaCO_3 on lupin (*Lupinus angustifolius*) growth and nutrition 955
- Jupp, D. L. B., Walker, J., Kalma, J., and Smith, R.—
Remote sensing of change in components of the regional water balance of the Murray-Darling Basin using satellite imaged and spatially registered environmental data 409
- Kalma, J.—
See Jupp, D. L. B. 409
- Kinnell, P. I. A.—
The mechanics of raindrop-induced flow transport 497
- Kinnell, P. I. A., Chartres, C. J., and Watson, C. L.—
The effect of fire on the soil in a degraded semi-arid woodland. II. Susceptibility of the soil to erosion by shallow rain-impacted flow 779
- Kipton, H.—
See Manu, V. T. 727
- Lamb, D.—
See Holt, J. A. 737
- Le Feuvre, R. P.—
See Skjemstad, J. O. 267
- Leys, J. F.—
See Raupach, M. R. 177
- Lobry de Bruyn, L. A., and Conacher, A. J.—
The role of termites and ants in soil modification: A review 55
- Loch, R. J.—
See Prove, B. G. 577
- Lowther, J. R.—
See Carlyle, J. C. 981
- Lynch, A. W.—
See McTainsh, G. H. 323
- McGarry, D.—
Soil compaction and cotton growth on a Vertisol 869
- McKinley, P. G.—
See Aitken, R. L. 695, 703
- McLaughlin, M. J., Baker, T. G., James, T. R., and Rundle, J. A.—
Distribution and forms of phosphorus and aluminium in acidic topsoils under pastures in south-eastern Australia 371
- McLay, C. D. A.—
See Cameron, K. C. 879
- McTainsh, G. H., Lynch, A. W., and Burgess, R. C.—
Wind erosion in eastern Australia 323
- Madrid, L.—
See Diaz-Barrientos, E. 549
- Manu, V. T., Kipton, H., Powell, J., Banks, L., Sheat, A., and Widdowson, J. P.—
Accession of SO_2 -S from Tongan rainfall 727
- Maqueda, C.—
See Pérez-Rodríguez, J. L. 117
- Mateos, L., Meyer, W. S., Smith, R. C. G., and Sides, R.—
Evaluation of radiant canopy temperature and soil water measurement for quantifying the contribution of shallow watertables to crop evaporation 1013
- Mattingly, G. E. G.—
See Holford, I. C. R. 919
- Mayer, R. J.—
See Dalal, R. C. 563
- Merry, R. H., Tiller, K. G., and Richards, A. F.—
Variability in characteristics of some acidic pasture soils in South Australia and implications for lime application 27
- Meyer, W. S.—
See Mateos, L. 1013
- Robbins, C. W. 1001
- Moody, P. W.—
See Aitken, R. L. 695, 703
- Moody, P. W., Dickson, T., Dwyer, J. C., and Compton, B. L.—
Predicting yield responsiveness and phosphorus fertilizer requirements of soybeans from soil tests 399
- Morillo, E.—
See Diaz-Barrientos, E. 549
- Pérez-Rodríguez, J. L. 117
- Nambiar, E. K. S.—
See Carlyle, J. C. 981
- Norman, C.—
See Oster, J. 407
- Oades, J. M.—
See Baldock, J. A. 193, 213
- Okwach, G.—
See Palis, R. G. 623, 641
- Olsson, K. A.—
See Rab, M. A. 487
- Oster, J., Norman, C., and West, D.—
Monitoring soil and water resources: an introduction 407

- Palis, R. G., Okwach, G., Rose, C. W., and Saffigna, P. G.—
Soil erosion processes and nutrient loss. I. The interpretation of enrichment ratio and nitrogen loss in runoff sediment 623
II. The effect of surface contact cover and erosion processes on enrichment ratio and nitrogen loss in eroded sediment 641
- Palmer, R. W. P.—
See Childs, C. W. 245
- Parfitt, R. L.—
Allophane in New Zealand—a review 343
- Pérez-Rodríguez, J. L., Maqueda, C., and Morillo, E.—
Occurrence of palygorskite in soils of Ecija (Spain) 117
- Perrott, K. W., and Sarathchandra, S. U.—
Seasonal variations in soil S flush and possible contribution from plant roots in the measurement of soil microbial sulfur, phosphorus, potassium and nitrogen 747
- Perrott, K. W., Sarathchandra, S. U., and Waller, J. E.—
Seasonal storage and release of phosphorus and potassium by organic matter and the microbial biomass in a high-producing pastoral soil 593
- Peterson, G. H.—
See Slavich, P. G. 453, 517
- Pillai-McGarry, U. P. P., and Collis-George, N.—
Laboratory simulation of the surface morphology of self-mulching and non self-mulching Vertisols.
I. Materials, methods and preliminary results 129
II. Quantification of visual features 141
- Poile, G. J., Ring, S. M., Conyers, M. K., and Slattery, W. J.—
The influence of centrifuging on phosphorus (Olsen P) soil test values 559
- Potts, I. W.—
Use of the EM-34 instrument in groundwater exploration in the Shepparton region 433
- Powell, J.—
See Manu, V. T. 727
- Prebble, R. E.—
See Skjemstad, J. O. 267
- Prescott, J. R.—
See Tejan-Kella, M. S. 465
- Prove, B. G., Loch, R. J., Foley, J. L., Anderson, V. J., and Younger, D. R.—
Improvements in aggregation and infiltration characteristics of a krasnozom under maize with direct drill and stubble retention 577
- Rab, M. A., Olsson, K. A., and Willatt, S. T.—
Resistance to water uptake by irrigated potatoes on a duplex soil 487
- Raupach, M. R., and Leys, J. F.—
Aerodynamics of a portable wind erosion tunnel for measuring soil erodibility by wind 177
- Richards, A. F.—
See Merry, R. H. 27
- Ring, S. M.—
See Poile, G. J. 559
- Ritchie, G. S. P.—
See Armour, J. D. 387
- Robbins, C. W., and Meyer, W. S.—
Calculating pH from EC and SAR values in salinity models and SAR from soil and bore water pH and EC data 1001
- Robson, A. D.—
See Armour, J. D. 387
- Rose, C. W.—
See Palis, R. G. 623, 641
- Ross, C. W.—
See Childs, C. W. 245
- Ross, D. J.—
Influence of soil mineral-nitrogen content on soil respiratory activity and measurements of microbial carbon and nitrogen by fumigation-incubation procedures 311
- Roth, G.—
See Jessop, R. S. 955
- Rundle, J. A.—
See McLaughlin, M. J. 371
- Ruprecht, J. K., and Schofield, N. J.—
In situ neutron moisture meter calibration in lateritic soils 153
- Russell, W. G. R.—
See Hick, P. T. 417
- Ryan, P. J.—
See Turner, J. 797
Turvey, N. D. 813
- Saffigna, P. G.—
See Palis, R. G. 623, 641
- Sageman, R.—
See Bleeker, P. 901
- Sale, P.—
See Jessop, R. S. 955
- Sarathchandra, S. U.—
See Perrott, K. W. 593, 747
- Schofield, N. J.—
See Ruprecht, J. K. 153
- Scott, W. D.—
See Findlater, P. A. 609
- Sheat, A.—
See Manu, V. T. 727
- Sides, R.—
See Mateos, L. 1013
- Singh, H., and Bajwa, M. S.—
Comparison of different models for describing gypsum dissolution kinetics in different aqueous salt solutions 947

- Singh, R., Gerritse, R. G., and Aylmore, L. A. G.—
Adsorption-desorption behaviour of selected pesticides in some Western Australian soils 227
Effect of organic cosolvent on adsorption and desorption of Linuron and Simazine in soil 717
- Singh, B., and Gilkes, R. J.—
Sorption-desorption behaviour of caesium in some Western Australian soils 929
- Skjemstad, J. O., Bushby, H. V. A., and Hansen, R. W.—
Extractable Fe and Al in the surface horizons of a range of soils from Queensland 259
- Skjemstad, J. O., Le Feuvre, R. P., and Prebble, R. E.—
Turnover of soil organic matter under pasture as determined by ^{13}C natural abundance 267
- Slattery, W. J.—
See Poile, G. J. 559
- Slavich, P. G.—
Determining EC_a -depth profiles from electromagnetic induction measurements 443
- Slavich, P. G., and Petterson, G. H.—
Estimating average rootzone salinity from electromagnetic induction (EM-38) measurements 453
Estimating solution extract salinity from soil paste electrical conductivity. An evaluation of procedures 517
- Smethurst, P. J.—
See Carlyle, J. C. 981
- Smith, L. H.—
See Tiller, K. G. 1
- Smith, N. P.—
See Cameron, K. C. 879
- Smith, R.—
See Jupp, D. L. B. 409
- Smith, R. C. G.—
See Mateos, L. 1013
- Spain, A. V.—
Influence of environmental conditions and some soil chemical properties on the carbon and nitrogen contents of some tropical Australian rainforest soils 825
- Sullivan, L. A.—
Micromorphology and genesis of some calcite pseudomorphs after lenticular gypsum 483
- Tejan-Kella, M. S., Chittleborough, D. J., Fitzpatrick, R. W., Thompson, C. H., Prescott, J. R., and Hutton, J. T.—
Thermoluminescence dating of coastal sand dunes at Cooloolia and North Stradbroke Island, Australia 465
- Thompson, C. H.—
See Tejan-Kella, M. S. 465
Turner, J. 797
- Tiller, K. G.—
See Merry, R. H. 27
Tiller, K. G., and Smith, L. H.—
Limitations of EGME retention to estimate the surface area of soils 1
- Turner, J., Thompson, C. H., Turvey, N. D., Hopmans, P., and Ryan, P. J.—
A soil technical classification system for *Pinus radiata* (D. Don) plantations. I. Development 797
- Turvey, N. D.—
See Turner, J. 797
- Turvey, N. D., Booth, T. H., and Ryan, P. J.—
A soil technical classification system for *Pinus radiata* (D. Don) plantations. II. A basis for estimation of crop yield 813
- Uren, N. C.—
The movement and distribution of manganese added to soil 677
- Vasallo, A. M.—
See Baldock, J. A. 193, 213
- Walker, J.—
See Jupp, D. L. B. 409
- Waller, J. E.—
See Perrott, K. W. 593
- Watson, C. L.—
See Kinnell, P. I. A. 779
- Webb, A. A., and Dowling, A. J.—
Characterization of basaltic clay soils (Vertisols) from the Oxford land system in central Queensland 841
- West, D.—
See Oster, J. 407
- White, P. F.—
The influence of alternative tillage systems on the distribution of nutrients and organic carbon in some common Western Australian wheatbelt soils 95
- Widdowson, J. P.—
See Manu, V. T. 727
- Willatt, S. T.—
See Rab, M. A. 487
- Williams, P. H., Hedley, M. J., and Gregg, P. E. H.—
The effect of preferential flow of dairy cow urine and simulated rainfall on movement of potassium through undisturbed topsoil cores 857
- Wilson, M. A.—
See Baldock, J. A. 193, 213
- Wood, J. T.—
See Chartres, C. J. 539
- Younger, D. R.—
See Prove, B. G. 577